27/23/2016 EUF 2012- Isem Inera esfera our QL I. fredm dm = p.dA = p. 2 = Rda dui zirsno Rida ->]= (RS. 20 Sind zir da I = The Repsense de zinkp 4 / zrm I = (2 mg + Md2) 2 fr. 62 ? Jon (is) puth). 2.77= 3re+ 16me2 = 100me2 /=> /=> /=> /=> /=> /=> /=> /=> /=> b) $l:=l\int_{\mathbb{R}^{2}} \frac{d^{2}l}{l^{2}}$ $I_{r}=2\cdot\left(\frac{2}{3}nR^{2}+\frac{mR^{2}}{l^{2}}\right)=\frac{2l^{2}nR^{2}}{l^{2}}=\frac{1l^{2}nR^{2}}{l^{2}}\times \frac{1}{l^{2}}$ 100 m RW; = 4. wp => wl = 100 m/w, & => wf = 300 w; C) K= 112 Ki = 1. [100 MR] . W. = 1 LK = WI. MR [150 - 100] = 25 Wing? M-T. IIME, MZ d WEAK 1

T= 1m(1249) = Imlg V. mgh=+nglus0 =7 l= Inlig-rylus9 mlå+mylsina =0 1 + 2 0 = 0 | mlö = +mysind=) 0 - 2 0 = 0 b) r= 5 => r= ti \8 O(1) = Aug (15t) + BSm (15t) => (1)co, de(1)co, 0(1). B/2 cos (5/4) => B= 1/8 OHI = 1 w (wt) - mgsin0+imJglo=F =7 m.a=F mlo = zmyslo-rysino 0-2/2 0- 20 = 0

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d) 2-2wr-w:0

1.42.42:0 -> [r=w] -> O(t)=tAc + Bc

O(o)= Do O(1)= Aint , int Air time Be ė(o)=0

0000 = A + 1 WB =) A = 6 1 WB 0(0)=00:B -7 A=-in00

=> (alt) = - su do te + do ent

Q3. 1 ms drogo, N= 419 nm, B, 3Po, SPo, b=30= KeV,

Blow gliner :) P= 300.10 eV, 10 3 = 300 eV

E. h.C. = 9,14.10. 3.108 = 3.10 Tro oborn with gray pl Li

b) Motor = Plan = 1 Plan = 900 cd : 300 photos and with to law

Blum de who photon des popular de lika.

C)
$$S_{C} > 15^{2}S^{2}p^{2}SS^{2}Sp^{2}SS^{2}d^{2}$$
 $S_{C} > 15^{2}S^{2}p^{2}SS^{2}Sp^{2}SS^{2}d^{2}$
 $S_{C} > 15^{2}S^{2}Sp^{2}SS^{2}Sp^{2}SS^{2}d^{2}$
 $S_{C} > 15^{2}S^{2}Sp^{2}SS^{2$

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$$E_{0} = 240 | V | \Psi_{0} \gamma = \int_{0}^{2} \frac{1}{2} \cdot V_{0} e^{\frac{1}{2} x} e^{-\frac{1}{2} x^{2}} dx$$

$$E_{0} = A^{2} V_{0} \int_{0}^{\infty} e^{\frac{1}{2} x^{2}} e^{-\frac{1}{2} x^{2}} e^{-\frac{1}{2} x^{2}} dx$$

$$E_{0} = A^{2} V_{0} \int_{0}^{\infty} e^{-\frac{1}{2} x^{2}} e^{-\frac{1}{2} x^{2}} e^{-\frac{1}{2} x^{2}} dx$$

$$E_{0} = \left(\frac{1}{2} + \frac{1}{2} +$$

$$(A)\vec{p} = \gamma \vec{S}$$

$$H = -\vec{n} \cdot \vec{B} = -\gamma \vec{B} \cdot \vec{S} \Rightarrow H_{\xi}$$

H = -p.B = -rB.3 => Hz= -rBs2 = -rB t (10)

c)
$$\times (0) = \frac{1}{\sqrt{2}} \left(\frac{1}{e^{-x}} \right) = \frac{1}{\sqrt{2}} \left(\frac{1}{e^{-x}} \right) + \frac{1}{\sqrt{2}} \left(\frac{1}{e^{-x}} \right) = \frac{1}{\sqrt{2}} 1_{E_{2}} \times + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1_{E_{2}}}{\sqrt{2}} \right)$$

$$1 \times 2 \times (|x|) = 1 \times 1 \times (|x|) = 7 \times (|x|) = 2 \times (|x|)$$

$$1 \times (|x|) = \frac{1}{\sqrt{2}} \frac{1_{E_{1}}}{1_{E_{1}}} + \frac{1}{e^{-x}} \frac{1_{E_{2}}}{e^{-x}} \frac{1_{E_{2}}}{1_{E_{2}}} \times (|x|)$$

$$1 \times (|x|) = \frac{1}{\sqrt{2}} \frac{1_{E_{1}}}{1_{E_{1}}} + \frac{1}{e^{-x}} \frac{1_{E_{2}}}{1_{E_{2}}} \cdot (|x|) = 2 \times (|x|)$$

$$1 \times (|x|) = \frac{1}{\sqrt{2}} \frac{1_{E_{1}}}{1_{E_{1}}} + \frac{1}{2} \frac{1_{E_{1}}}{1_{E_{1}}} \cdot (|x|) = \frac{1}{2} \frac{1_{E_{1}}}$$

$$P_{+}(1) = \frac{1}{4} \cdot \left(1 + 2 + \frac{1}{6} \cdot \frac{1}{12} + \frac{1}{12} \cdot \frac$$